

I/M Summit Kickoff Meeting Questions and Answers

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Contracting vs. Licensing

- EPA can approve either program design
- A contract guarantees testing provider performance and revenue
- A license doesn't necessarily guarantee testing provider performance and revenue
- States have a responsibility to make a demonstration of network effectiveness claims

Do catalytic converters reduce benzene?

- Catalytic converters reduce air toxics by the same proportion that they reduce overall VOC emissions.
- For example, if a catalyst reduces VOC by 90%, it will reduce air toxics by roughly 90%.

List of states that had sanctions imposed

- New Jersey - 1999
- Massachusetts - 1999
- New Hampshire - 1998
- Maine - 1998
- Illinois - 1996
- Louisiana - 1996
- Michigan - 1996
- Montana - 1995, 1996
- Missouri - 1995, 1996
- Nebraska - 1995
- Vermont - 1994
- West Virginia - 1994
- Ohio - 1989, 1995
- New Mexico - 1985
- Tennessee - 1984
- Oregon - 1984
- Pennsylvania - 1982
- California - 1980
- Kentucky - 1980
- Colorado - 1980

List of Federal Air Quality and Mobile Source Control Milestones

- 1990 - Clean Air Act Amendments
- 1994 - Tier I new vehicle standards, Reformulated Gasoline standards
- 1995 - I/M Program requirements, OBD Systems
- 1996 - Banning of leaded gasoline, I/M program amendments
- 1997 - Tier II study, National Low Emission Vehicle program
- 1998 - Light truck fuel economy standard, OBD I/M requirement
- 2000 - Tier II new vehicle standards, Gasoline sulfur standards
- 2001 - OBD I/M revision, Heavy-duty vehicle standards, Diesel sulfur standards
- 2002 - MOBILE 6 released
- 2004 - 8-hour ozone standard implementation rule

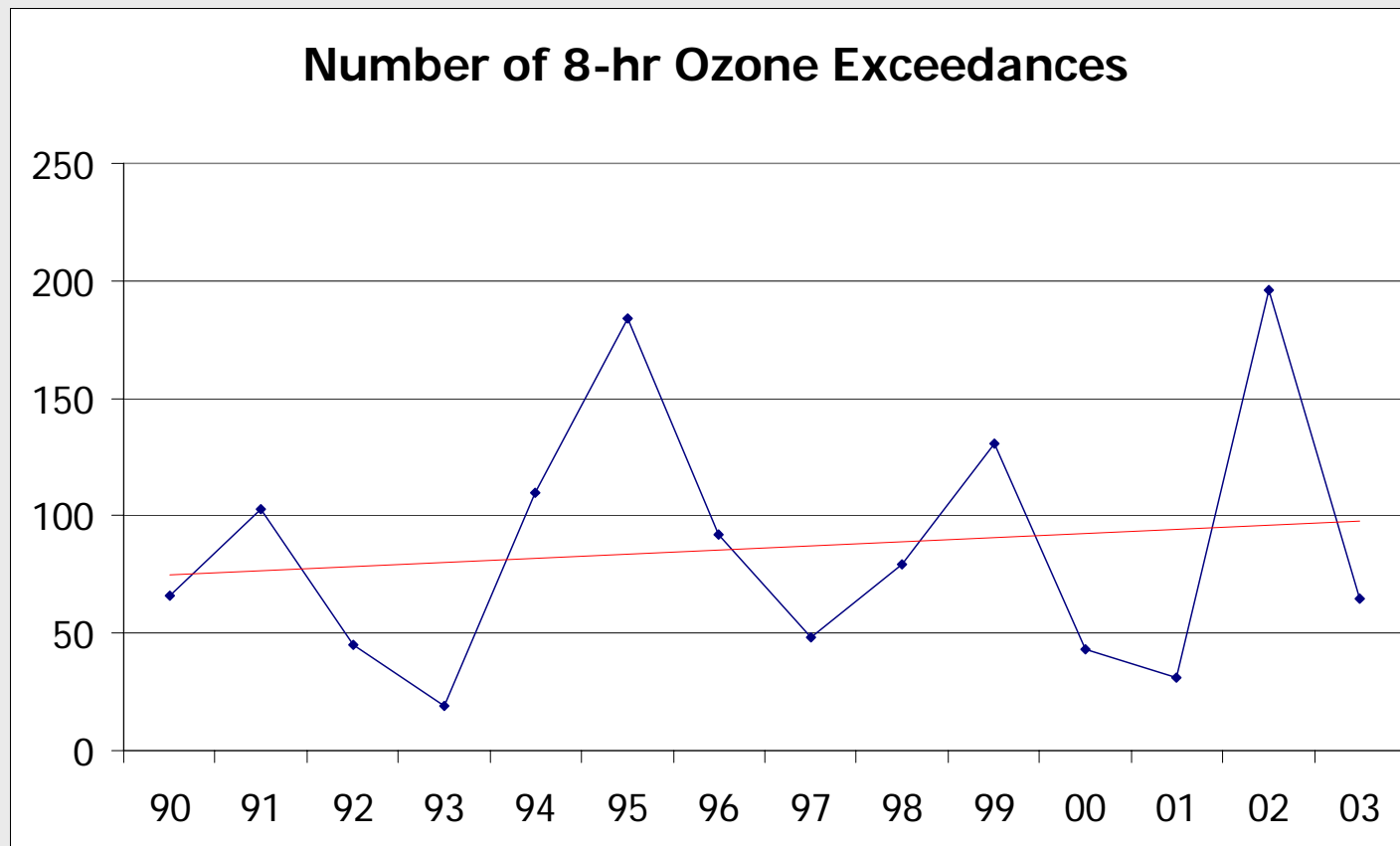
List of Missouri's Mobile Source Control Milestones

- 1984 - Basic I/M implemented
- 1989 - Stage II Vapor Recovery program implemented
- 1990 - BAR 90 I/M implemented
- 1992 - EPA Audit of BAR 90 I/M program
- 1994 - Senate Bill 590 authorizes enhanced I/M
- 1996 - I/M Program Advisory Committee
- 1997 - First Request for Proposals, Treadway lawsuit
- 1998 - Senate Bill 619 authorizes reformulated gasoline, Second Request for Proposals
- 1999 - I/M Contract awarded
- 2000 - Gateway Clean Air Program begins
- 2002, 2003, 2005 - Enhanced I/M program improvements

St. Louis Emissions Trends

- Number of ozone conducive days is relatively constant
- Number of one-hour ozone exceedences has decreased significantly since 1990
- Number of eight-hour ozone exceedences has increased slightly since 1990

St. Louis Emissions Trends (continued)



St. Louis Emissions Trends (continued)

■ 2002 Inventory

- Anthropogenic VOC = 249 tons/day (tpd)
- Biogenic VOC = 425 tpd
- Anthropogenic NO_x = 361 tpd

■ VOC Sources

Point = 22 tpd

Area = 73 tpd

Mobile On-road = 101 tpd

Mobile Off-road = 54 tpd

NO_x Sources

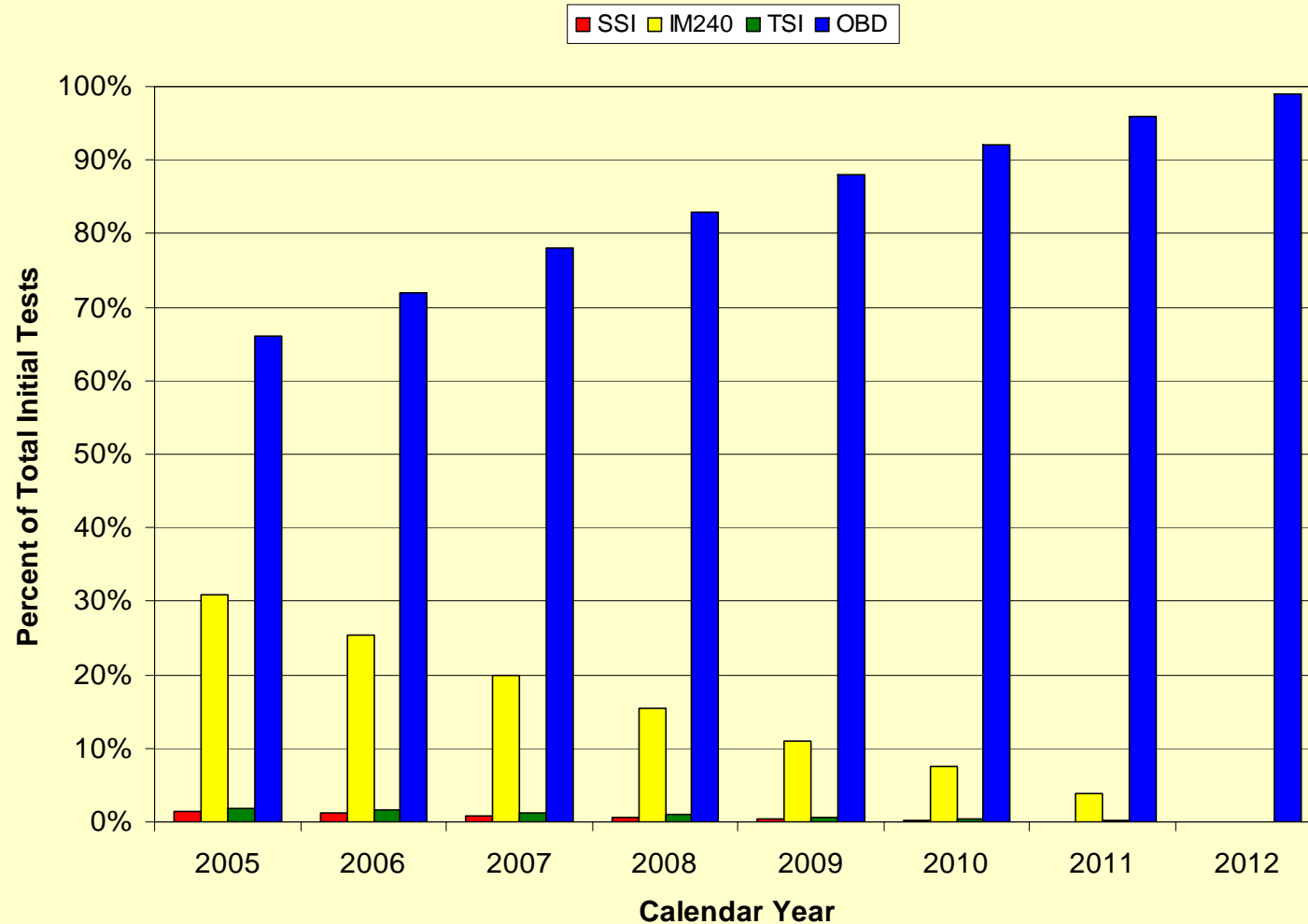
Point = 100 tpd

Area = 19 tpd

Mobile On = 179 tpd

Mobile Off = 63 tpd

St. Louis Fleet Test Type Distribution Projection



Outstate Commuters to St. Louis Area

- 1998 DOR Vehicle Registration Count
 - 1.3 million registered vehicles in nonattainment area
- 1999 Traffic Counts by MoDOT
 - On average workday, 61,000 vehicles entered nonattainment area from Ste. Genevieve, St. Francois, Washington, Gasconade, Warren, and Lincoln Counties
 - These vehicles increase fleet size by 4.5 %

Failed vehicle procedures/outcomes

- Repair to pass
- Repair reduces emissions for more than waiver minimum (~3 % of failed vehicles)
- Repair costs more than \$689 (not quantified)
- No known outcome (~4 % of failed vehicles)

Equivalent Vehicles Removed from Road

■ 1 TPD of VOC Emissions Reductions

- 125 model year 1994 vehicles driving 12,000 miles/year
- 800 model year 2004 vehicles driving 15,000 miles/year

■ 1 TPD of NO_x Emissions Reductions

- 37 model year 1994 vehicles driving 12,000 miles/year
- 300 model year 2004 vehicles driving 15,000 miles/year